

In the Claims:

Please amend the claims as follows:

1. (currently amended) A system that enables a user to interact with a virtual control panel using a user controlled pointing object, ~~wherein the system comprises~~ comprising:
 - a first tracking unit ~~(15b)~~ adapted to capture data representing the position of the pointing object, ~~characterized in that the system further comprises~~:
 - a portable identification element (3),
 - a second tracking unit ~~(15a)~~ adapted to capture data representing the position of the identification element,
 - a storage unit ~~(29)~~, storing at least one pre-defined graphical interface representing a control panel of a device, said graphical interface comprising an interface for user interactions with the device,
 - a graphics unit ~~(23)~~, generating a graphical representation of the control panel based on said stored graphical interface,
 - a registering unit ~~(25)~~, registering said graphical representation of the control panel in a fixed relation to said portable identification element, based on said data representing the position of the identification element, to produce a virtual control panel,
 - a display unit ~~(7)~~, showing the user a view comprising the real world and the virtual control panel projected in a fixed relation to said portable identification element, and
 - an application unit ~~(21)~~, performing actions in response to the users interactions with the virtual control panel, and determining which actions to be performed based on the position of

said user controlled pointing object in relation to the identification element.

2. (currently amended) A The system according to claim 1, ~~characterized in that~~ wherein the system is adapted to modify the appearance of the virtual control panel in response to interactions between the user controlled pointing object and the virtual control panel.

3. (currently amended) A The system according to claim ~~1 or 2~~, ~~characterized in that~~ claim 1, wherein said graphical interface is adapted to display data from the device and ~~that~~ wherein the system is adapted to generate a graphical representation of the data and to display the data on the virtual control panel.

4. (currently amended) A The system according to ~~any of the previous claims,~~ ~~characterized in that~~ claim 1, wherein said user controlled pointing object is a handheld pointing device ~~(1)~~ or a part of the user's body.

5. (currently amended) A The system according to ~~any of the previous claims,~~ ~~characterized in that~~ claim 1, wherein the storage unit (29) is adapted to store a plurality of graphical interfaces, each representing a control panel of a particular device, ~~that~~ wherein the system is adapted to generate and display a plurality of graphical representations of control panels for different devices based on said stored graphical interfaces of the devices, and ~~that~~ wherein the system further comprises:

means ~~(31)~~ for identifying which of the stored control panels to be displayed.

6. (currently amended) A The system according to claim 5, ~~characterized in that~~ wherein said means for identifying which of the stored control panels to be displayed comprises a recognition unit (31) for recognizing and identifying devices in the environment of the user, and ~~that~~ wherein the system is adapted to determine which of the stored control panels to be displayed based on which of the devices is identified.

7. (currently amended) A The system according to claim 6, ~~characterized in that~~ wherein said recognition unit (31) is adapted to recognize and identify unique identification markings (9a, 9b) on the devices (11a, 11b).

8. (currently amended) A The system according to ~~any of the claims 5-7,~~ characterized in that claim 5, wherein the system is arranged so that it changes the virtual control panel displayed when another device is recognized and identified, and when the user has accepted the device.

9. (currently amended) A The system according to ~~any of the previous claims,~~ characterized in that claim 1, wherein said portable identification element (3) is adapted to be carried by the user during interaction with the virtual control panel.

10. (currently amended) A The system according to ~~any of the previous claims,~~ characterized in that claim 1, wherein said portable identification element (3) is attachable to the body of the user.

11. (currently amended) A The system according to ~~any of the previous claims,~~
~~characterized in that~~ claim 1, wherein said display unit comprises a wearable display device (7)
showing the user said view.

12. (currently amended) A method that enables a user to interact with a virtual control
panel using a user controlled pointing object, ~~wherein~~ the method ~~comprises~~ comprising:

receiving data representing the position of the user controlled pointing object (4),
receiving data representing the position of a portable identification element (3),
storing at least one pre-defined graphical interface representing a control panel of a
device,
generating a graphical representation of the control panel of the device based on said pre-
defined graphical interface,
registering said graphical representation of the control panel in a fixed relation to said
portable identification element, based on said data representing the position of the identification
element, to produce a virtual control panel,
displaying a view comprising the real world and the virtual control panel projected in a
fixed relation to said portable identification element, and
performing actions in response to the users interactions with the virtual control panel,
wherein the actions to be performed is determined based on the position of said user controlled
pointing object in relation to the position of the virtual control panel.

13. (currently amended) A The method according to claim 12, further comprising:
modifying the appearance of the virtual control panel in response to interactions between

the user controlled pointing object and the virtual control panel.

14. (currently amended) ~~A~~ The method according to claim 12, further comprising: ~~or 13,~~
~~wherein it comprises,~~

defining a two-way communication between the virtual control panel and the device,
sending information to the device regarding the users actions with the virtual control
panel,

receiving data from the device, generating a graphical representation of the received data
and

displaying the data on the virtual control panel.

15. (currently amended) ~~A~~ The method according to claim 14, wherein said data is
displayed on the virtual control panel in response to interactions between the user controlled
pointing object and the virtual control panel.

16. (currently amended) ~~A~~ The method according to ~~any of the claims 12-15~~ claim 12,
~~wherein the method comprises~~ further comprising:

storing a plurality of pre-defined graphical interfaces, each representing a control panel of
a particular device,

determining which of the stored control panels to be displayed, and

generating a graphical representation of the control panel to be displayed based on the
pre-defined graphical interface of the control panel to be displayed.

17. (currently amended) A The method according to ~~any of the claims 12-16~~ claim 12, wherein at least one of the stored graphical interfaces comprises more than one graphical view to be displayed on the virtual control panel, and which of the views to be displayed is determined based upon the users actions.

18. (currently amended) A The method according to claim 16, ~~wherein it comprises~~ further comprising:

recognizing and identifying a device,

determining which of the stored control panels to be displayed based on the identified device, and

generating graphical representation of the control panel of the identified device based on the stored graphical interface of the identified device and displaying a view comprising the real world and the virtual control panel of the identified device projected in a fixed relation to said portable identification element.

19. (currently amended) A The method according to claim 18, ~~wherein characterized in that~~ each device is provided with a unique identification marking and a device is recognized by identifying its unique identification marking.

20. (currently amended) A The method according to ~~any of the claims 18-19~~ claim 18, wherein the virtual control panel displayed is changed when another device is recognized and identified, and when the user has accepted the device.

21. (currently amended) A The method according to any of the claims 12-20 claim 12, wherein said portable identification element is carried by the user during interaction with the virtual control panel.

22. (currently amended) A The method according to any of the claims 12-21 claim 12, wherein the virtual control panel comprises virtual interaction members and an audio and/or visual feedback is generated when the user activates any of the virtual interaction members.

23. (currently amended) A computer program product, comprising:
a computer readable medium; and
program instructions recorded on the computer readable medium which, when loaded into a computer, causes the computer to perform ~~the process of any of the claims 12-22~~ the steps of
receiving data representing the position of the user controlled pointing object,
receiving data representing the position of a portable identification element,
storing at least one pre-defined graphical interface representing a control panel of a
device,
generating a graphical representation of the control panel of the device based on said pre-
defined graphical interface,
registering said graphical representation of the control panel in a fixed relation to said
portable identification element, based on said data representing the position of the identification
element, to produce a virtual control panel,
displaying a view comprising the real world and the virtual control panel projected in a

fixed relation to said portable identification element, and

performing actions in response to the users interactions with the virtual control panel,
wherein the actions to be performed is determined based on the position of said user controlled
pointing object in relation to the position of the virtual control panel.

24. (cancelled)